

[illegible]

providing a luminance sensor and a color sensor having
a color filter thereover;

producing electronic video signals from outputs of said luminance sensor and said color sensor.

3. The method as defined by claim 1, wherein said step of providing a color sensor having a color filter thereover comprises providing a color sensor with a two-color checkerboard filter pattern.

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15. The method as defined by claim 13, wherein said step of providing optical pre-filtering comprises providing a grating in the path of light from said image that is focused on said color sensor.

16. The method as defined by claim 13, wherein said step of providing a grating includes orienting lines of said grating on a diagonal with respect to vertical and horizontal reference directions of said color sensor.

17. The method as defined by claim 15, wherein said step of providing a grating includes orienting lines of said grating on a diagonal with respect to vertical and horizontal reference directions of said color sensor.

18. The method as defined by claim 1, further comprising the step of providing a rotating mechanical shutter in the path of light from said image that is focused by said lens system.

19. The method as defined by claim 3, further comprising the step of providing a rotating mechanical shutter in the path of light from said image that is focused by said lens system.

20. The method as defined by claim 1, wherein said step of providing a beamsplitter comprises providing a rotating

39. The method as defined by claim 37, wherein said step of providing a color sensor with a two-color checkerboard filter pattern comprises providing a red-blue checkerboard filter pattern.

40. The method as defined by claim 38, wherein said step of providing a color sensor with a two-color checkerboard filter pattern comprises providing a red-green checkerboard filter pattern.

41. The method as defined by claim 38, wherein said step of providing a pellicle beamsplitter comprises providing a pellicle that is also operative as an opto-acoustical low pass filter.

42. The method as defined by claim 38, further comprising the step of applying ultrasonic excitation to said pellicle to implement optical low pass pre-filtering of light from said image that is focused on said color sensor.

43. The method as defined by claim 38, further comprising the step of applying ultrasonic excitation to said pellicle along diagonal directions with respect to vertical and horizontal reference directions of said color sensor to effect optical pre-filtering of the light focused on said color sensor.

